

Pulvino, Derek

From: Satterfield, Jennifer D. [Jennifer.Satterfield@awwu.biz]
Sent: Friday, August 19, 2011 9:45 AM
To: Pulvino, Derek
Cc: Baus, Brian D.; Vause, Kurt H.; Miller, Tina S.
Subject: EPA Site Inquiries
Attachments: 300 E. 5th Ave.pdf; 6935 Jewel Lake Road.pdf; Usgs2009.xls; Usgs2010.xls; Usgs2011.xls; Well 4 Diagram.pdf; Well 7 Diagram.pdf; Well 12 Diagram.pdf; Well 4 Elevation 1956.tiff; Well 4 Log 1979.tiff; Well 7 Elevation.tiff; Well 12 Elevation.tiff; Well 12.tiff

Hello Derek,

Per your request for water information regarding 2 sites in Anchorage (300 E. 5th Ave & 6935 Jewel Lake Rd) I have included the following attachments in this email:

- 1) Well locations within each 4 mile radius boundary
- 2) Data on well production (USGS 2009-2011). Well # 3 has not been used for years (+/- 10 yrs) due to poor water quality so no production information is available for this well.
- 3) Record drawing information/Water rights info indicating each well depth
- 4) ADEC and On-sight web address to find info on other wells in area
<http://www.dec.state.ak.us/water/index.htm> and
<http://onsite.ci.anchorage.ak.us/scripts/LFWebLink.exe/weblink/browser.html>
- 5) AWWU 500 Scale water distribution maps of the area. I will send these maps in a follow up email due to file sizes.

It's important to note that within each 4 mile radius area served by AWWU the water is a mix of both well water and Eklutna Lake water.

Please let me know if you need any clarification on the attached material. Also, as a reminder, if any further information is needed then an reimbursable account will need to be set up for this project. The earliest AWWU Planning would be able to do additional research would be October/November time frame.

Jennie

Jennifer Satterfield
Civil Engineer II
AWWU Planning
907-564-2743

From: Pulvino, Derek [mailto:DPulvino@ene.com]
Sent: Wednesday, July 27, 2011 10:10 AM
To: Miller, Tina S.
Subject: RE: 300 East 5th Avenue



Tina;

Ahead of our telephone conversation scheduled for later today, this is some of the information I am

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looking for.

1. Exact location of the four wells located within four miles of the site I'm looking at. Based on your email, I gather this information could be obtained from GIS data you would be able to provide?
2. Whether or not the four wells include wellhead protection zones, and if so, what is/are the areal extent of those zones?
3. How much water is supplied by AWWU and the four wells identified within a 4-mile radius annually?
4. Information on the construction of the four wells and what aquifer they draw from. If boring/well logs are available, can we obtain copies?
5. Do any of these wells serve as standby wells or are there other wells in the 4-mile radius not previously listed that are standby wells?
6. Is water drawn from the four identified wells regularly tested? If so what analytical suites are used and what has been the results of that testing?
7. Are any of the wells unusable? If so, is that due to the detection of contamination?

Look forward to speaking with you later today.

Derek B. Pulvino
Ecology and Environment, Inc.
720 3rd Avenue, Suite 1700, Seattle, WA 98104
Phone: 206-624-9537 Ext: 3613 | Fax: 206-621-9832
dpulvino@ene.com | www.ene.com



Celebrating 40 Years of Green Solutions

From: Miller, Tina S. [<mailto:Christina.Miller@awwu.biz>]
Sent: Thursday, June 23, 2011 3:21 PM
To: Pulvino, Derek
Cc: Lawhorn, Bitsy K.
Subject: 300 East 5th Avenue

Hi Derek,

I run the Asset Management Group at AWWU, which includes the spatial analysis components. A quick answer to your question is as follows:

Within a 4 mile radius of 300 E 5th Avenue

- 22,300 constructed water customer service nodes
- 4 AWWU wells (Well 3, 4, 7 and 12)

Water customer service nodes can be considered customer accounts (mostly a one to one relationship to a parcel); the number of people that are associated with the customer accounts becomes a more complex question to answer, and would need to take into account the land use of the parcels being served and the residential census data for that area. However, looking at the form, I'm wondering if the well information for municipal wells is needed since it is all blended water, with the majority coming from two surface water sources.

What I would recommend for analysis is I can provide our customer premise information spatially, as well as the spatial information on AWWU wells (in GIS). There exists a land use layer (not necessarily current, but good approximation) where if there is a building and no AWWU customer premise it is a reasonable approximation that this land is served by a well source. Since all our wells (except for Girdwood) are blended into our surface

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water system, this should give you a good handle on the information you need.

A phone call might be a good idea if the information is not quite meeting your needs. If the above level of analysis is sufficient or you only need the data, there is no charge. If you need more in depth spatial analysis, the bill rate is \$35 / per labor hour.

Thank you,

Tina Miller, P.E.
Strategic Asset Services Manager
Anchorage Water & Wastewater
3000 Arctic Boulevard
Anchorage, AK 99503
Tina.Miller@awwu.biz
907-564-2725

From: Pulvino, Derek [<mailto:DPulvino@ene.com>]
Sent: Wednesday, June 08, 2011 3:03 PM
To: Lawhorn, Bitsy K.
Subject: 300 East 5th Avenue

Bitsy,

Sorry for the delay in getting back to you. I've been trying to refine my question/search as best as I could. I am looking at a 4-mile radius around the property of interest, but what I'm trying to find out from AWWU is if there are any municipal and/or utility drinking water supply wells within that distance. If so, I'd then need to know where that/those well(s) are located; the approximate percentage of water supplied by AWWU that comes from those well(s); and how many people are supplied by those well(s) (again approximate). We also have a checklist/form that asks other pertinent questions regarding supply well(s) that fall within the search radius (see attachment).

I will also have to find out if there are residences in the 4-mile radius that obtain drinking water from private wells. We expect that information is going to have to come from the WELTS database, but if such data is readily available from AWWU, by all means help in that regard would be appreciated.

The other side of this is I'm looking at 3 separate sites in Anchorage, two of which are within several blocks of one another. Besides the 300 East 5th Ave site I'd originally called about, the two other properties are located between Gambell and Hyder Streets on East 4th Avenue, and at 6935 Jewel Lake Road. If needed, I can also provide maps showing the site locations and the "4-mile radius." I had asked about the one property originally as I wanted to make sure we were getting the correct information before researching the next property.

Let me know if you need anything else from me. Also, if there will be charges for these services, I'd need to know that ahead of time.

Thanks again for your help on this,

Derek B. Pulvino
Ecology and Environment, Inc.

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720 3rd Avenue, Suite 1700, Seattle, WA 98104
Phone: 206-624-9537 Ext: 3613 | Fax: 206-621-9832
dpulvino@ene.com | www.ene.com



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